

1 The mass of water vapor contained in a given volume of air is....

- A humidity
- ☒ B absolute humidity
- C relative humidity
- D dew point

Mar 25-9:59 AM

2 An instrument that measures relative humidity with two identical thermometers is a(n)...

- A dew cell
- B hair hygrometer
- C radiosonde
- ☒ D psychrometer

Mar 25-9:59 AM

3 From where does most evaporation come from?

- A plants
- B burning fuels
- ☒ C equatorial oceans
- D lakes

Mar 25-10:00 AM

23.1 Review

Grade: 9th
Subject: Earth Science
Date: 3/25

Mar 25-9:57 AM

1 The dew point is the temperature at which the rate of condensation...

- ☒ A equals the rate of evaporation
- ☐ B lowers the rate of evaporation
- ☐ C exceeds the rate of evaporation
- ☐ D raises the rate of evaporation

Mar 25-10:01 AM

2 If the temperature stays the same and the air becomes more moist, the relative humidity will...

- ☐ A decrease
- ☒ B increase
- ☐ C increase and then decrease
- ☐ D remain constant

Mar 25-10:01 AM

3 The process by which a solid changes directly into a gas is called _____.

sublimation

Mar 25-10:02 AM

4 The process by which water vapor changes into a liquid is called _____.

condensation

Mar 25-10:02 AM

5 The heat energy absorbed or released by a substance during a phase change is called _____.

latent heat

Mar 25-10:03 AM

Write a list of words that
think of when see/hear
the word precipitation.

✓ Rain
✓ Snow
✓ Sleet
✓ Puddles
← Hail

Thunder
Lightning
Rubber Boots
Rain Coats
Rain sounds
Wind
Floodings
Hurricanes

Blizzards
Gale
Weather
Clouds
Temp.
Foggy

Umbrella
Water Cycle
Water Storms

Apr 3-11:00 AM

23.2 Review

Grade: 9th
Subject: Earth Science
Date: 3/26

Mar 26-11:19 AM

1 Upslope fog forms through...

- A adiabatic cooling
- B mixing and warming
- ☒ C lifting and cooling
- D advective cooling

Mar 26-11:21 AM

2 The base of the clouds marks the...

- A adiabatic lapse effect
- ☒ B condensation effect
- C condensation nuclei
- D dew point

Mar 26-11:22 AM

3 What must be present in order for clouds to form?

- A adiabatic cooling
- B a large solid surface
- ☒ C condensation nuclei
- D a condensation level

E. All

F. None

Mar 26-11:22 AM

4 Cirrus clouds have the highest altitude of any cloud in the sky



Mar 26-11:23 AM

5 Radiation Fog results from the nightly cooling of Earth.



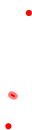
Mar 26-11:24 AM

- 6 Stratus clouds cover large areas of sky and often block out the sun.



Mar 26-11:24 AM

- 7 Cumulus clouds form at low altitudes with a top that resembles cotton balls.



Mar 26-11:25 AM

23.3/23.4 Review

Grade: 9th
Subject: Earth Science
Date: 4/3/13

Mar 25-12:21 PM

1 A _____ measures rainfall amounts.

rain gauge

Apr 3-9:49 AM

2 Doppler radar measures air temperature.

True

False

Apr 3-9:50 AM

3 Coalescence combines small cloud droplets into large droplets.

True

False

Apr 3-9:51 AM

4 _____ introduces condensation nuclei into a cloud.

Cloud seeding

Apr 3-9:51 AM

5 Precipitation in the form of lumps of ice is

- A sleet
- B glaze ice
- C drizzle
- D hail

Apr 3-9:52 AM

6 The diameter of a normal raindrop is....

- A smaller than 0.5 mm
- ☒ B between 0.5 and 5 mm
- C between 5 mm and 10 mm
- D larger than 10 mm

Apr 3-9:53 AM

7 What can form if rain falls through a layer of freezing air near the ground?

- A snow
- B hail
- ☒ C sleet
- D big raindrops

Apr 3-9:53 AM

8 The most common form of solid precipitation is...

- ☒ A snow
- ☐ B sleet
- ☐ C glaze ice
- ☐ D hail

Apr 3-9:54 AM

9 When the temperature of the air decreases, the rate of the evaporation...

- ☐ A increases
- ☐ B varies
- ☐ C stays the same
- ☒ D decreases

Apr 5-9:00 AM

10 The type of fog that results when moist air moves across a cold surface is....

- A radiation fog
- B ground fog
- ☒ C advection fog
- D steam fog

Apr 5-9:01 AM

11 Changes in temperature that result from the cooling of rising air or the warming of the sinking air are...

- ☒ A adiabatic
- B relative
- C advective
- D latent

Apr 5-9:02 AM

12 Clouds form when the water vapor in the air condenses as...

- A the air is heated
- ☒ B the air is cooled
- C snow falls
- D the air is superheated

Apr 5-9:02 AM

13 The prefix nimbo- and suffix - nimbus mean...

- A high
- B billowy
- ☒ C rain
- D layered

Apr 5-9:03 AM

14 The fog that results from the nightly cooling of Earth is called...

- A steam fog
- B upslope fog
- ☒ C radiation fog
- D advection fog

Apr 5-9:04 AM

15 Rain that freezes when it strikes a surface produces...

- A sleet
- ☒ B glaze ice
- C hail
- D frost

Apr 5-9:05 AM

16 Clouds in which the water droplets remain liquid below 0 degree Celsius are said to be...

- A saturated
- B supersaturated
- C superheated
- ☒ D supercooled

Apr 5-9:06 AM

17 In one method of cloud seeding, silver iodide crystals are used as...

- ☒ A freezing nuclei
- B cloud droplets
- C dry ice
- D latent heat

Apr 5-9:06 AM

18 An instrument that uses the electrical conductance of the chemical lithium chloride to measure relative humidity is the

- A hygrometer
- B rain gauge
- C psychrometer
- D dew cell

Apr 5-9:07 AM

19 One day in January, 6 cm of snow falls on your area. If all of the snow melts quickly, how deep will the water from the melted snow be (answer in cm)? (On average, 10 cm of snow melts to produce 1 cm of water)

$$6/10 \rightarrow 0.6$$

Apr 5-9:10 AM

20 At 15 degrees Celsius, air reaches saturation when it contains 10 g of water vapor per 1 kg of air. What is the relative humidity of air at 15 degrees that contains 7 g of water vapor per 1 kg of air (answer is a %)?

(Remember, relative humidity = (amount of water in air / amount needed to reach saturation) x 100)

$$7/10 \times 100 = 70\%$$

Apr 5-9:15 AM

Apr 5-10:45 AM